

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29424)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, FLUSH LENS,
WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

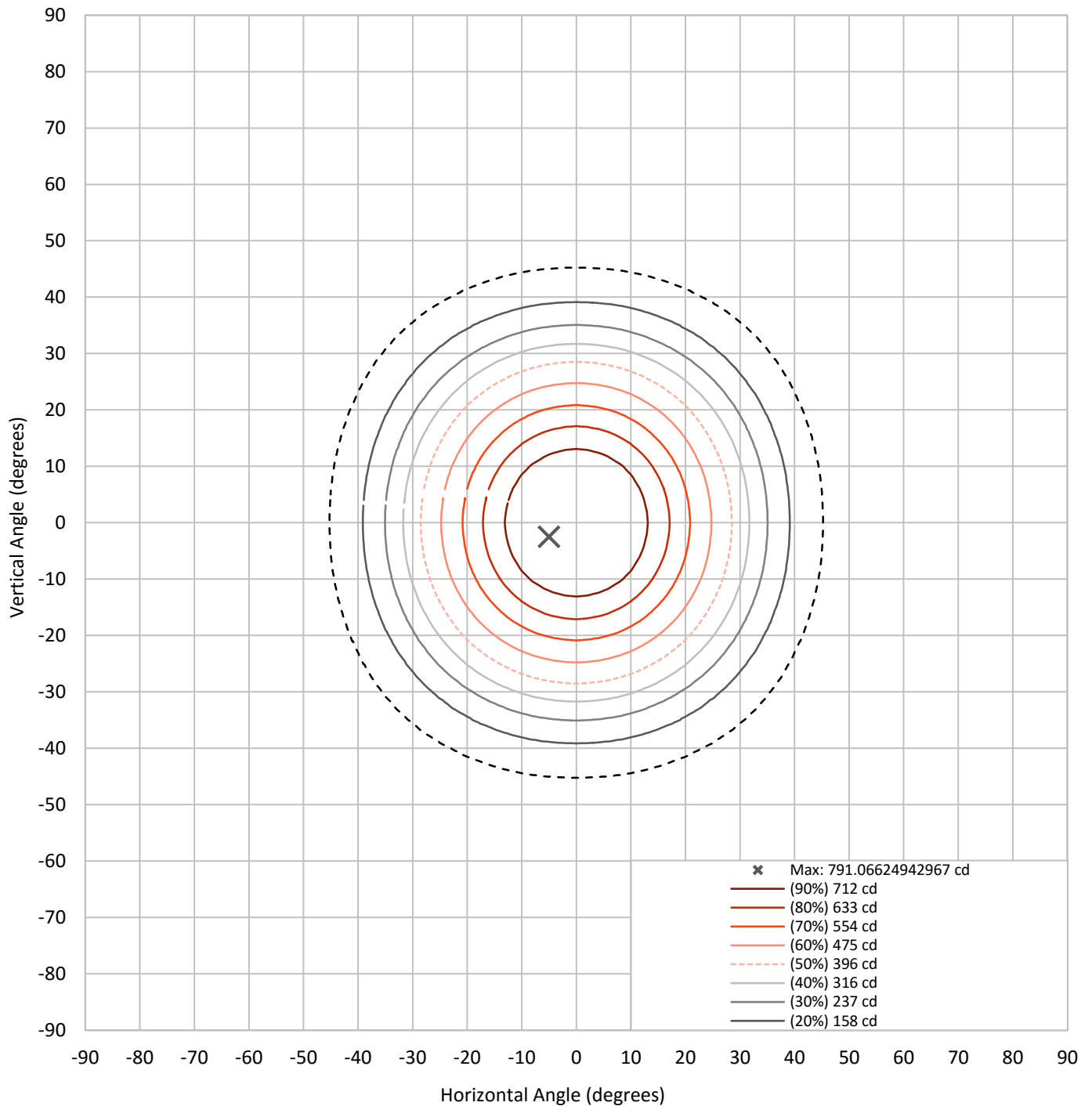
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	716.5 lumens	Max Intensity:	791.1 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	71.6 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	56.8°H x 56.2°V	Field Angle (10%):	90.2°H x 89.9°V
Beam Lumens:	442 lumens	Field Lumens:	668.1 lumens
Beam Efficiency:	61.7%	Field Efficiency:	93.3%
Input Watts (W):	10		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

Iso-Candela Plot





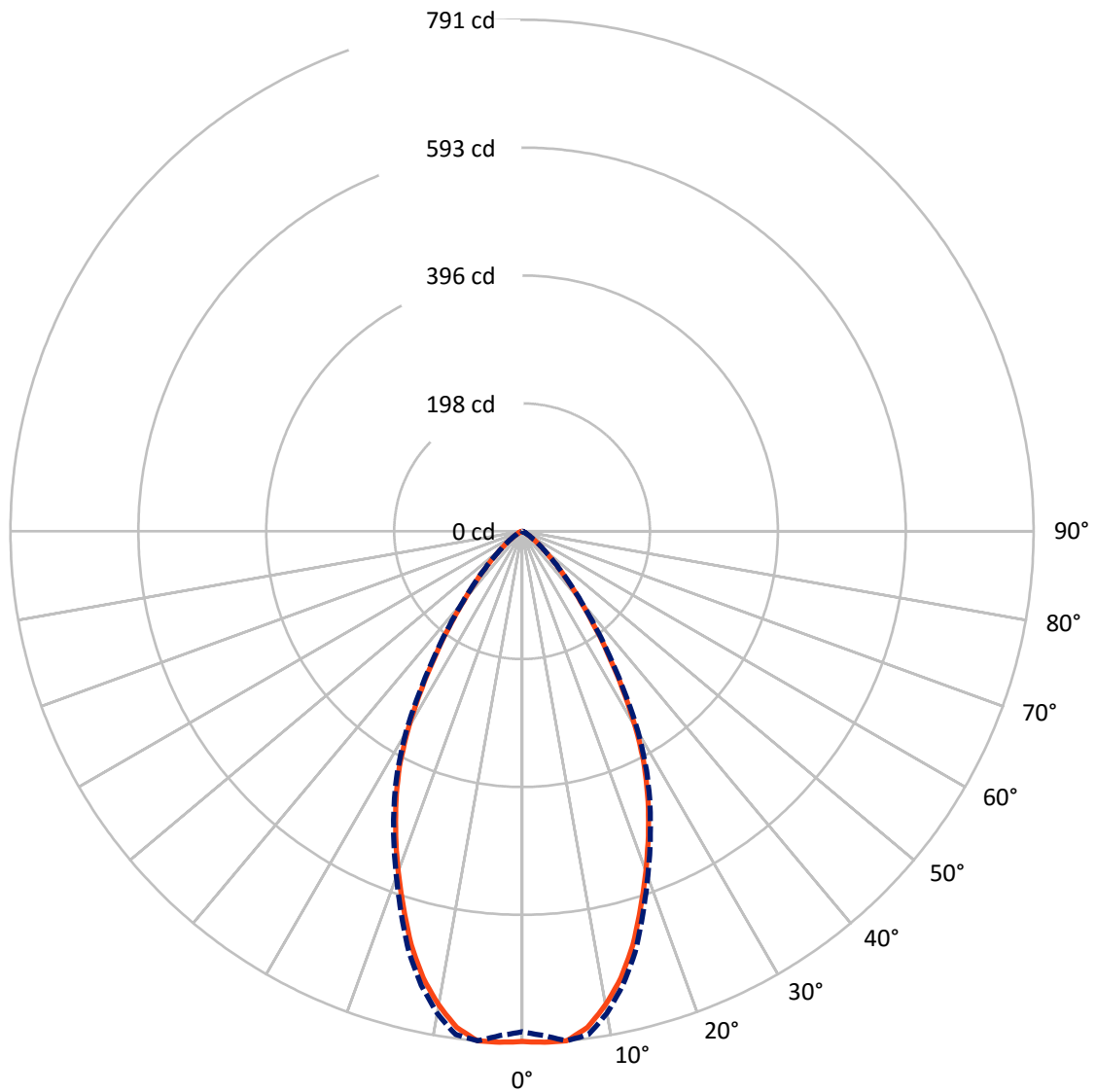
REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

Lumen Table

90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
70	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
60		0.0	0.0	0.1	0.2	0.4	0.6	0.7	0.7	0.6	0.4	0.2	0.1	0.0				0.0
50	0.0	0.0	0.1	0.2	0.6	1.2	2.0	2.5	2.5	2.0	1.2	0.6	0.2	0.1	0.0	0.0	0.0	0.0
40		0.0	0.1	0.5	1.5	3.3	5.5	7.1	7.1	5.5	3.3	1.5	0.5	0.1	0.0			
30	0.0	0.0	0.2	1.0	3.0	6.8	11.2	13.8	13.8	11.2	6.8	3.0	1.0	0.2	0.0	0.0	0.0	0.0
20		0.1	0.3	1.5	4.7	10.5	16.1	19.8	19.8	16.1	10.5	4.7	1.5	0.3	0.1			
10	0.0	0.1	0.4	1.8	5.9	12.6	19.2	23.4	23.4	19.2	12.6	5.9	1.8	0.4	0.1	0.0	0.0	0.0
0		0.1	0.4	1.8	5.9	12.6	19.2	23.4	23.4	19.2	12.6	5.9	1.8	0.4	0.1			
-10	0.0	0.1	0.3	1.5	4.7	10.5	16.1	19.8	19.8	16.1	10.5	4.7	1.5	0.3	0.1	0.0	0.0	0.0
-20		0.0	0.2	1.0	3.0	6.8	11.2	13.8	13.8	11.2	6.8	3.0	1.0	0.2	0.0			
-30	0.0	0.0	0.1	0.5	1.5	3.3	5.5	7.1	7.1	5.5	3.3	1.5	0.5	0.1	0.0	0.0	0.0	0.0
-40		0.0	0.1	0.2	0.6	1.2	2.0	2.5	2.5	2.0	1.2	0.6	0.2	0.1	0.0			
-50	0.0	0.0	0.0	0.1	0.2	0.4	0.6	0.7	0.7	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0
-60		0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0			
-70	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

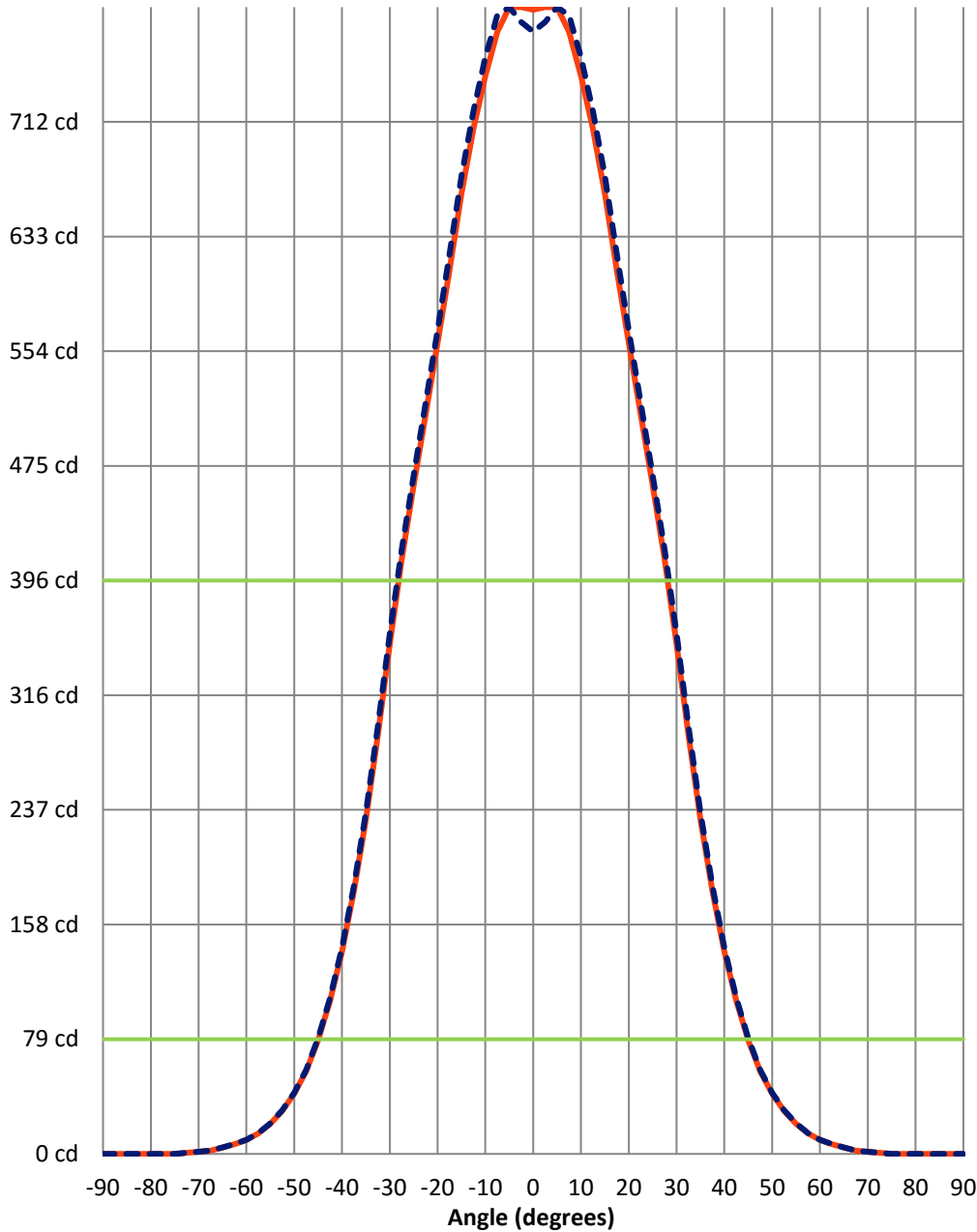
Luminous Intensity Polar Plot



— Vertical Distribution Through -5-Deg - - - Horizontal Distribution Through -2.5-Deg

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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

Luminous Intensity Plot



Beam:
H Angle: 56.8°
V Angle: 56.2°
Lumens: 442
Efficiency: 61.7%

Field:
H Angle: 90.2°
V Angle: 89.9°
Lumens: 668.1
Efficiency: 93.3%

Spill:
Lumens: 48.4
Efficiency: 6.7%

- Vertical Distribution through -5-Deg
- - Horizontal Distribution through -2.5-Deg



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	1
45°	0	0	0	0	0	0	0	0	0	0	1
42.5°	0	0	0	0	0	0	0	0	0	0	1
40°	0	0	0	0	0	0	0	0	0	1	1
37.5°	0	0	0	0	0	0	0	0	0	1	1
35°	0	0	0	0	0	0	0	0	0	1	2
32.5°	0	0	0	0	0	0	0	0	1	1	2
30°	0	0	0	0	0	0	0	0	1	1	2
27.5°	0	0	0	0	0	0	0	0	1	1	2
25°	0	0	0	0	0	0	0	0	1	2	2
22.5°	0	0	0	0	0	0	0	0	1	2	3
20°	0	0	0	0	0	0	0	0	1	2	3
17.5°	0	0	0	0	0	0	0	1	1	2	3
15°	0	0	0	0	0	0	0	1	1	2	4
12.5°	0	0	0	0	0	0	0	1	1	2	4
10°	0	0	0	0	0	0	0	1	1	2	4
7.5°	0	0	0	0	0	0	0	1	1	2	4
5°	0	0	0	0	0	0	0	1	1	2	4
2.5°	0	0	0	0	0	0	0	1	1	2	4
0°	0	0	0	0	0	0	0	1	2	2	5
-2.5°	0	0	0	0	0	0	0	1	1	2	4
-5°	0	0	0	0	0	0	0	1	1	2	4
-7.5°	0	0	0	0	0	0	0	1	1	2	4
-10°	0	0	0	0	0	0	0	1	1	2	4
-12.5°	0	0	0	0	0	0	0	1	1	2	4
-15°	0	0	0	0	0	0	0	1	1	2	4
-17.5°	0	0	0	0	0	0	0	1	1	2	3
-20°	0	0	0	0	0	0	0	0	1	2	3



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	0	0	0	0	0	0	0	1	2	3
-25°	0	0	0	0	0	0	0	0	1	2	2
-27.5°	0	0	0	0	0	0	0	0	1	1	2
-30°	0	0	0	0	0	0	0	0	1	1	2
-32.5°	0	0	0	0	0	0	0	0	1	1	2
-35°	0	0	0	0	0	0	0	0	0	1	2
-37.5°	0	0	0	0	0	0	0	0	0	1	1
-40°	0	0	0	0	0	0	0	0	0	1	1
-42.5°	0	0	0	0	0	0	0	0	0	0	1
-45°	0	0	0	0	0	0	0	0	0	0	1
-47.5°	0	0	0	0	0	0	0	0	0	0	1
-50°	0	0	0	0	0	0	0	0	0	0	0
-52.5°	0	0	0	0	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	1	1
65°	0	0	0	0	0	0	1	1	1	1	1
62.5°	0	0	0	0	0	1	1	1	1	2	2
60°	0	0	0	1	1	1	1	2	2	2	3
57.5°	0	0	1	1	1	2	2	2	3	4	5
55°	0	1	1	1	2	2	3	4	5	5	6
52.5°	0	1	1	2	2	3	4	5	6	7	8
50°	1	1	2	2	3	4	5	6	8	9	11
47.5°	1	1	2	3	4	5	6	8	10	12	14
45°	1	2	2	4	5	6	8	10	12	15	19
42.5°	1	2	3	5	6	8	10	12	16	20	24
40°	2	2	4	5	7	9	12	15	20	25	30
37.5°	2	3	5	6	8	11	14	19	24	30	38
35°	2	4	6	7	10	13	17	23	29	37	46
32.5°	3	4	6	9	11	15	20	27	35	44	55
30°	3	5	7	10	13	18	24	32	41	52	66
27.5°	4	6	8	11	15	21	28	37	48	61	78
25°	4	6	9	12	17	23	32	42	55	71	91
22.5°	5	7	10	13	19	26	36	47	62	81	104
20°	5	7	10	15	21	29	40	53	70	92	118
17.5°	6	8	11	16	23	32	43	58	77	102	132
15°	6	8	12	18	25	35	47	63	85	111	144
12.5°	6	9	13	19	27	37	50	68	92	121	156
10°	6	9	13	20	28	39	53	73	98	129	167
7.5°	7	9	14	20	29	40	55	76	102	135	175
5°	7	10	14	21	30	42	57	78	106	140	181
2.5°	7	10	14	21	30	42	58	80	108	142	185
0°	7	10	14	21	30	42	58	80	108	143	186
-2.5°	7	10	14	21	30	42	58	80	108	142	185
-5°	7	10	14	21	30	42	57	78	106	140	181
-7.5°	7	9	14	20	29	40	55	76	102	135	175
-10°	6	9	13	20	28	39	53	73	98	129	167
-12.5°	6	9	13	19	27	37	50	68	92	121	156
-15°	6	8	12	18	25	35	47	63	85	111	144
-17.5°	6	8	11	16	23	32	43	58	77	102	132
-20°	5	7	10	15	21	29	40	53	70	92	118



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	5	7	10	13	19	26	36	47	62	81	104
-25°	4	6	9	12	17	23	32	42	55	71	91
-27.5°	4	6	8	11	15	21	28	37	48	61	78
-30°	3	5	7	10	13	18	24	32	41	52	66
-32.5°	3	4	6	9	11	15	20	27	35	44	55
-35°	2	4	6	7	10	13	17	23	29	37	46
-37.5°	2	3	5	6	8	11	14	19	24	30	38
-40°	2	2	4	5	7	9	12	15	20	25	30
-42.5°	1	2	3	5	6	8	10	12	16	20	24
-45°	1	2	2	4	5	6	8	10	12	15	19
-47.5°	1	1	2	3	4	5	6	8	10	12	14
-50°	1	1	2	2	3	4	5	6	8	9	11
-52.5°	0	1	1	2	2	3	4	5	6	7	8
-55°	0	1	1	1	2	2	3	4	5	5	6
-57.5°	0	0	1	1	1	2	2	2	3	4	5
-60°	0	0	0	1	1	1	1	2	2	2	3
-62.5°	0	0	0	0	0	1	1	1	1	2	2
-65°	0	0	0	0	0	0	1	1	1	1	1
-67.5°	0	0	0	0	0	0	0	0	0	1	1
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	1	1	1	1
70°	0	1	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	2	2	2	2	2	2	2
65°	2	2	2	2	2	3	3	3	4	4	4
62.5°	2	3	3	4	4	5	5	6	6	6	6
60°	4	4	5	6	6	7	7	8	8	9	9
57.5°	6	6	7	8	9	10	10	11	12	13	13
55°	7	9	10	11	12	13	15	16	18	19	20
52.5°	10	11	13	15	17	19	21	23	25	27	28
50°	13	15	18	21	23	26	29	32	35	37	39
47.5°	17	20	24	28	32	36	40	43	47	50	53
45°	23	27	32	37	42	47	53	58	63	68	73
42.5°	29	35	41	48	55	62	70	77	85	92	98
40°	37	44	52	61	71	81	92	102	111	121	129
37.5°	46	55	66	78	91	104	118	132	144	156	167
35°	56	69	82	98	114	132	149	167	183	199	212
32.5°	69	84	102	121	141	164	185	208	228	247	265
30°	82	102	124	146	173	199	226	253	280	303	323
27.5°	98	121	146	176	207	238	272	304	334	361	382
25°	114	141	173	207	242	282	320	356	388	413	434
22.5°	132	164	199	238	282	325	367	403	434	459	480
20°	149	185	226	272	320	367	408	444	474	502	525
17.5°	167	208	253	304	356	403	444	480	513	543	570
15°	183	228	280	334	388	434	474	513	550	583	614
12.5°	199	247	303	361	413	459	502	543	583	622	659
10°	212	265	323	382	434	480	525	570	614	659	696
7.5°	223	279	340	399	450	498	545	592	642	687	724
5°	231	289	352	410	461	510	559	610	662	707	744
2.5°	236	295	359	417	468	518	568	621	675	719	757
0°	237	297	361	419	470	521	571	625	679	723	761
-2.5°	236	295	359	417	468	518	568	621	675	719	757
-5°	231	289	352	410	461	510	559	610	662	707	744
-7.5°	223	279	340	399	450	498	545	592	642	687	724
-10°	212	265	323	382	434	480	525	570	614	659	696
-12.5°	199	247	303	361	413	459	502	543	583	622	659
-15°	183	228	280	334	388	434	474	513	550	583	614
-17.5°	167	208	253	304	356	403	444	480	513	543	570
-20°	149	185	226	272	320	367	408	444	474	502	525



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	132	164	199	238	282	325	367	403	434	459	480
-25°	114	141	173	207	242	282	320	356	388	413	434
-27.5°	98	121	146	176	207	238	272	304	334	361	382
-30°	82	102	124	146	173	199	226	253	280	303	323
-32.5°	69	84	102	121	141	164	185	208	228	247	265
-35°	56	69	82	98	114	132	149	167	183	199	212
-37.5°	46	55	66	78	91	104	118	132	144	156	167
-40°	37	44	52	61	71	81	92	102	111	121	129
-42.5°	29	35	41	48	55	62	70	77	85	92	98
-45°	23	27	32	37	42	47	53	58	63	68	73
-47.5°	17	20	24	28	32	36	40	43	47	50	53
-50°	13	15	18	21	23	26	29	32	35	37	39
-52.5°	10	11	13	15	17	19	21	23	25	27	28
-55°	7	9	10	11	12	13	15	16	18	19	20
-57.5°	6	6	7	8	9	10	10	11	12	13	13
-60°	4	4	5	6	6	7	7	8	8	9	9
-62.5°	2	3	3	4	4	5	5	6	6	6	6
-65°	2	2	2	2	2	3	3	3	4	4	4
-67.5°	1	1	1	1	2	2	2	2	2	2	2
-70°	0	1	1	1	1	1	1	1	1	1	1
-72.5°	0	0	0	0	0	0	0	1	1	1	1
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	1	1	1	1	1	1	1	1	1	1	1
70°	1	1	1	2	1	1	1	1	1	1	1
67.5°	2	2	2	2	2	2	2	2	2	2	2
65°	4	4	4	5	4	4	4	4	4	4	3
62.5°	7	7	7	7	7	7	7	6	6	6	6
60°	9	10	10	10	10	10	9	9	9	8	8
57.5°	14	14	14	14	14	14	14	13	13	12	11
55°	20	21	21	21	21	21	20	20	19	18	16
52.5°	29	30	30	30	30	30	29	28	27	25	23
50°	40	42	42	42	42	42	40	39	37	35	32
47.5°	55	57	58	58	58	57	55	53	50	47	43
45°	76	78	80	80	80	78	76	73	68	63	58
42.5°	102	106	108	108	108	106	102	98	92	85	77
40°	135	140	142	143	142	140	135	129	121	111	102
37.5°	175	181	185	186	185	181	175	167	156	144	132
35°	223	231	236	237	236	231	223	212	199	183	167
32.5°	279	289	295	297	295	289	279	265	247	228	208
30°	340	352	359	361	359	352	340	323	303	280	253
27.5°	399	410	417	419	417	410	399	382	361	334	304
25°	450	461	468	470	468	461	450	434	413	388	356
22.5°	498	510	518	521	518	510	498	480	459	434	403
20°	545	559	568	571	568	559	545	525	502	474	444
17.5°	592	610	621	625	621	610	592	570	543	513	480
15°	642	662	675	679	675	662	642	614	583	550	513
12.5°	687	707	719	723	719	707	687	659	622	583	543
10°	724	744	757	761	757	744	724	696	659	614	570
7.5°	752	774	785	788	785	774	752	724	687	642	592
5°	774	791	791	789	791	791	774	744	707	662	610
2.5°	785	791	781	774	781	791	785	757	719	675	621
0°	788	789	774	771	774	789	788	761	723	679	625
-2.5°	785	791	781	774	781	791	785	757	719	675	621
-5°	774	791	791	789	791	791	774	744	707	662	610
-7.5°	752	774	785	788	785	774	752	724	687	642	592
-10°	724	744	757	761	757	744	724	696	659	614	570
-12.5°	687	707	719	723	719	707	687	659	622	583	543
-15°	642	662	675	679	675	662	642	614	583	550	513
-17.5°	592	610	621	625	621	610	592	570	543	513	480
-20°	545	559	568	571	568	559	545	525	502	474	444



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	498	510	518	521	518	510	498	480	459	434	403
-25°	450	461	468	470	468	461	450	434	413	388	356
-27.5°	399	410	417	419	417	410	399	382	361	334	304
-30°	340	352	359	361	359	352	340	323	303	280	253
-32.5°	279	289	295	297	295	289	279	265	247	228	208
-35°	223	231	236	237	236	231	223	212	199	183	167
-37.5°	175	181	185	186	185	181	175	167	156	144	132
-40°	135	140	142	143	142	140	135	129	121	111	102
-42.5°	102	106	108	108	108	106	102	98	92	85	77
-45°	76	78	80	80	80	78	76	73	68	63	58
-47.5°	55	57	58	58	58	57	55	53	50	47	43
-50°	40	42	42	42	42	42	40	39	37	35	32
-52.5°	29	30	30	30	30	30	29	28	27	25	23
-55°	20	21	21	21	21	21	20	20	19	18	16
-57.5°	14	14	14	14	14	14	14	13	13	12	11
-60°	9	10	10	10	10	10	9	9	9	8	8
-62.5°	7	7	7	7	7	7	7	6	6	6	6
-65°	4	4	4	5	4	4	4	4	4	4	3
-67.5°	2	2	2	2	2	2	2	2	2	2	2
-70°	1	1	1	2	1	1	1	1	1	1	1
-72.5°	1	1	1	1	1	1	1	1	1	1	1
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	1	1	1	1	1	1	0	0	0	0	0
67.5°	2	2	2	1	1	1	1	1	1	0	0
65°	3	3	2	2	2	2	2	1	1	1	1
62.5°	5	5	4	4	3	3	2	2	2	1	1
60°	7	7	6	6	5	4	4	3	2	2	2
57.5°	10	10	9	8	7	6	6	5	4	3	2
55°	15	13	12	11	10	9	7	6	5	5	4
52.5°	21	19	17	15	13	11	10	8	7	6	5
50°	29	26	23	21	18	15	13	11	9	8	6
47.5°	40	36	32	28	24	20	17	14	12	10	8
45°	53	47	42	37	32	27	23	19	15	12	10
42.5°	70	62	55	48	41	35	29	24	20	16	12
40°	92	81	71	61	52	44	37	30	25	20	15
37.5°	118	104	91	78	66	55	46	38	30	24	19
35°	149	132	114	98	82	69	56	46	37	29	23
32.5°	185	164	141	121	102	84	69	55	44	35	27
30°	226	199	173	146	124	102	82	66	52	41	32
27.5°	272	238	207	176	146	121	98	78	61	48	37
25°	320	282	242	207	173	141	114	91	71	55	42
22.5°	367	325	282	238	199	164	132	104	81	62	47
20°	408	367	320	272	226	185	149	118	92	70	53
17.5°	444	403	356	304	253	208	167	132	102	77	58
15°	474	434	388	334	280	228	183	144	111	85	63
12.5°	502	459	413	361	303	247	199	156	121	92	68
10°	525	480	434	382	323	265	212	167	129	98	73
7.5°	545	498	450	399	340	279	223	175	135	102	76
5°	559	510	461	410	352	289	231	181	140	106	78
2.5°	568	518	468	417	359	295	236	185	142	108	80
0°	571	521	470	419	361	297	237	186	143	108	80
-2.5°	568	518	468	417	359	295	236	185	142	108	80
-5°	559	510	461	410	352	289	231	181	140	106	78
-7.5°	545	498	450	399	340	279	223	175	135	102	76
-10°	525	480	434	382	323	265	212	167	129	98	73
-12.5°	502	459	413	361	303	247	199	156	121	92	68
-15°	474	434	388	334	280	228	183	144	111	85	63
-17.5°	444	403	356	304	253	208	167	132	102	77	58
-20°	408	367	320	272	226	185	149	118	92	70	53



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	367	325	282	238	199	164	132	104	81	62	47
-25°	320	282	242	207	173	141	114	91	71	55	42
-27.5°	272	238	207	176	146	121	98	78	61	48	37
-30°	226	199	173	146	124	102	82	66	52	41	32
-32.5°	185	164	141	121	102	84	69	55	44	35	27
-35°	149	132	114	98	82	69	56	46	37	29	23
-37.5°	118	104	91	78	66	55	46	38	30	24	19
-40°	92	81	71	61	52	44	37	30	25	20	15
-42.5°	70	62	55	48	41	35	29	24	20	16	12
-45°	53	47	42	37	32	27	23	19	15	12	10
-47.5°	40	36	32	28	24	20	17	14	12	10	8
-50°	29	26	23	21	18	15	13	11	9	8	6
-52.5°	21	19	17	15	13	11	10	8	7	6	5
-55°	15	13	12	11	10	9	7	6	5	5	4
-57.5°	10	10	9	8	7	6	6	5	4	3	2
-60°	7	7	6	6	5	4	4	3	2	2	2
-62.5°	5	5	4	4	3	3	2	2	2	1	1
-65°	3	3	2	2	2	2	2	1	1	1	1
-67.5°	2	2	2	1	1	1	1	1	1	0	0
-70°	1	1	1	1	1	1	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	1	0	0	0	0	0	0	0	0	0	0
62.5°	1	1	0	0	0	0	0	0	0	0	0
60°	1	1	1	1	0	0	0	0	0	0	0
57.5°	2	2	1	1	1	0	0	0	0	0	0
55°	3	2	2	1	1	1	0	0	0	0	0
52.5°	4	3	2	2	1	1	0	0	0	0	0
50°	5	4	3	2	2	1	1	0	0	0	0
47.5°	6	5	4	3	2	1	1	1	0	0	0
45°	8	6	5	4	2	2	1	1	0	0	0
42.5°	10	8	6	5	3	2	1	1	0	0	0
40°	12	9	7	5	4	2	2	1	1	0	0
37.5°	14	11	8	6	5	3	2	1	1	0	0
35°	17	13	10	7	6	4	2	2	1	0	0
32.5°	20	15	11	9	6	4	3	2	1	1	0
30°	24	18	13	10	7	5	3	2	1	1	0
27.5°	28	21	15	11	8	6	4	2	1	1	0
25°	32	23	17	12	9	6	4	2	2	1	0
22.5°	36	26	19	13	10	7	5	3	2	1	0
20°	40	29	21	15	10	7	5	3	2	1	0
17.5°	43	32	23	16	11	8	6	3	2	1	1
15°	47	35	25	18	12	8	6	4	2	1	1
12.5°	50	37	27	19	13	9	6	4	2	1	1
10°	53	39	28	20	13	9	6	4	2	1	1
7.5°	55	40	29	20	14	9	7	4	2	1	1
5°	57	42	30	21	14	10	7	4	2	1	1
2.5°	58	42	30	21	14	10	7	4	2	1	1
0°	58	42	30	21	14	10	7	5	2	2	1
-2.5°	58	42	30	21	14	10	7	4	2	1	1
-5°	57	42	30	21	14	10	7	4	2	1	1
-7.5°	55	40	29	20	14	9	7	4	2	1	1
-10°	53	39	28	20	13	9	6	4	2	1	1
-12.5°	50	37	27	19	13	9	6	4	2	1	1
-15°	47	35	25	18	12	8	6	4	2	1	1
-17.5°	43	32	23	16	11	8	6	3	2	1	1
-20°	40	29	21	15	10	7	5	3	2	1	0



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	36	26	19	13	10	7	5	3	2	1	0
-25°	32	23	17	12	9	6	4	2	2	1	0
-27.5°	28	21	15	11	8	6	4	2	1	1	0
-30°	24	18	13	10	7	5	3	2	1	1	0
-32.5°	20	15	11	9	6	4	3	2	1	1	0
-35°	17	13	10	7	6	4	2	2	1	0	0
-37.5°	14	11	8	6	5	3	2	1	1	0	0
-40°	12	9	7	5	4	2	2	1	1	0	0
-42.5°	10	8	6	5	3	2	1	1	0	0	0
-45°	8	6	5	4	2	2	1	1	0	0	0
-47.5°	6	5	4	3	2	1	1	1	0	0	0
-50°	5	4	3	2	2	1	1	0	0	0	0
-52.5°	4	3	2	2	1	1	0	0	0	0	0
-55°	3	2	2	1	1	1	0	0	0	0	0
-57.5°	2	2	1	1	1	0	0	0	0	0	0
-60°	1	1	1	1	0	0	0	0	0	0	0
-62.5°	1	1	0	0	0	0	0	0	0	0	0
-65°	1	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0
0°	0	0	0	0	0	0	0
-2.5°	0	0	0	0	0	0	0
-5°	0	0	0	0	0	0	0
-7.5°	0	0	0	0	0	0	0
-10°	0	0	0	0	0	0	0
-12.5°	0	0	0	0	0	0	0
-15°	0	0	0	0	0	0	0
-17.5°	0	0	0	0	0	0	0
-20°	0	0	0	0	0	0	0



REPORT NUMBER: P220425 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-FL-LED2790-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	0	0	0	0	0	0	0
-25°	0	0	0	0	0	0	0
-27.5°	0	0	0	0	0	0	0
-30°	0	0	0	0	0	0	0
-32.5°	0	0	0	0	0	0	0
-35°	0	0	0	0	0	0	0
-37.5°	0	0	0	0	0	0	0
-40°	0	0	0	0	0	0	0
-42.5°	0	0	0	0	0	0	0
-45°	0	0	0	0	0	0	0
-47.5°	0	0	0	0	0	0	0
-50°	0	0	0	0	0	0	0
-52.5°	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)